

11

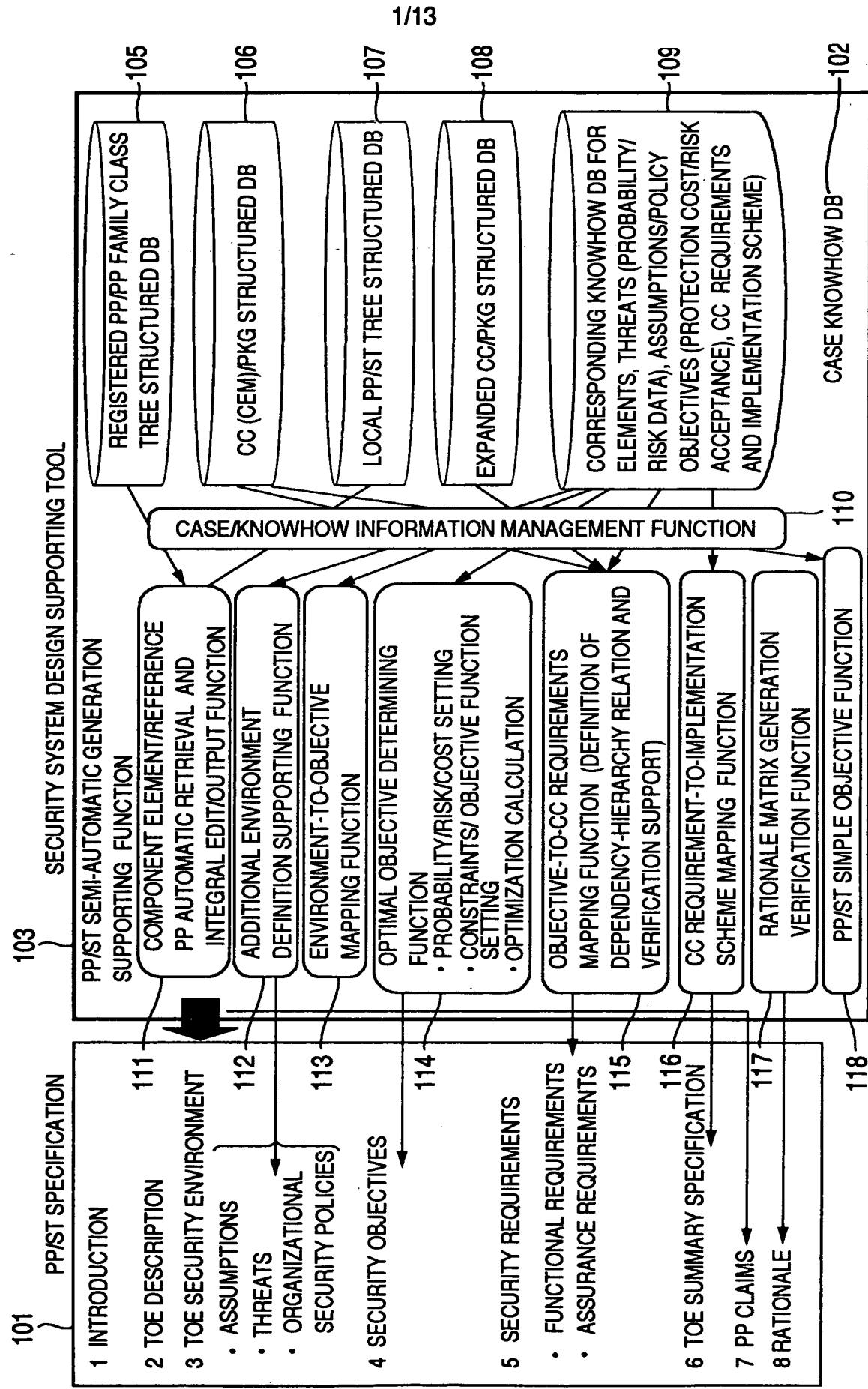


FIG.2

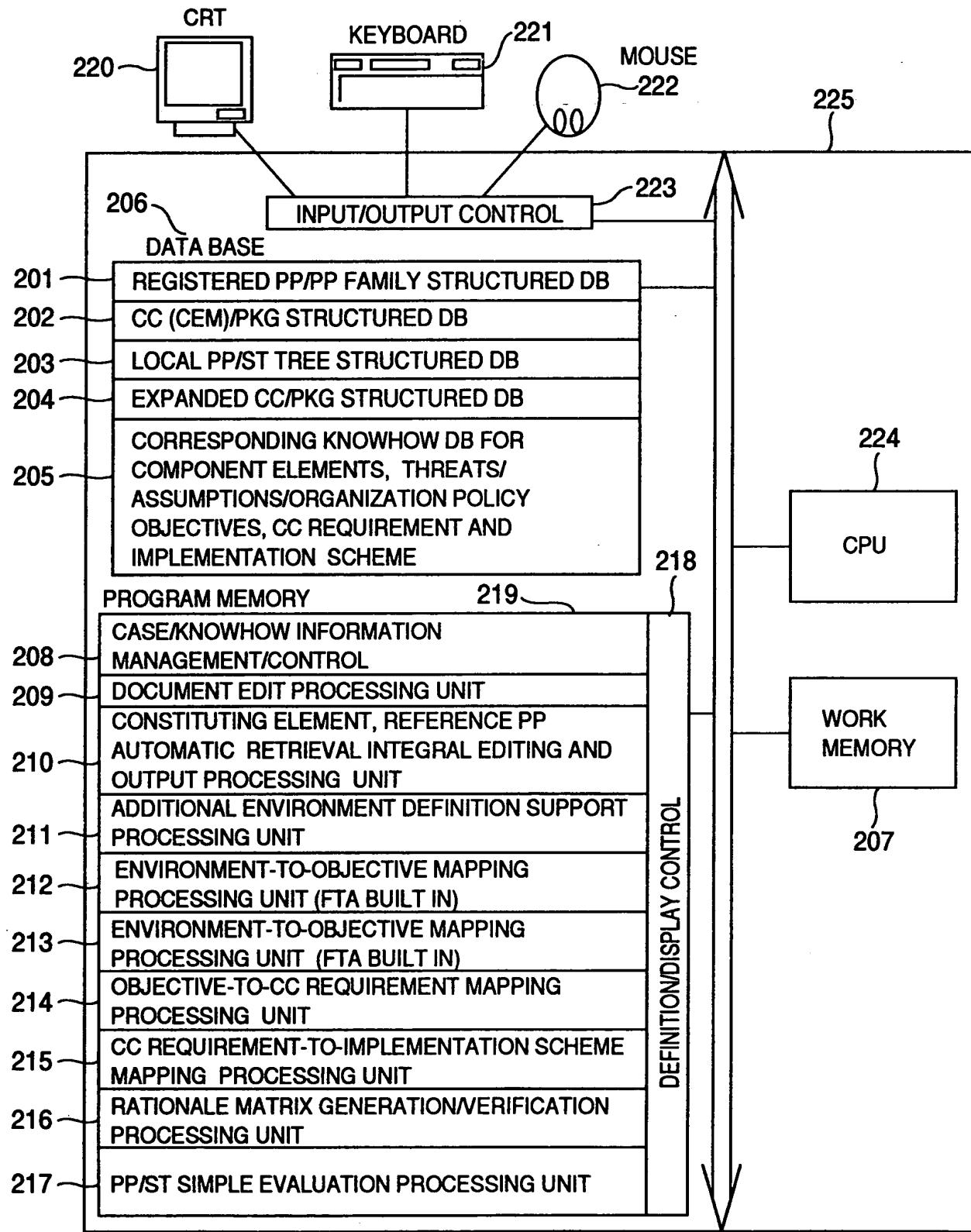


FIG.3

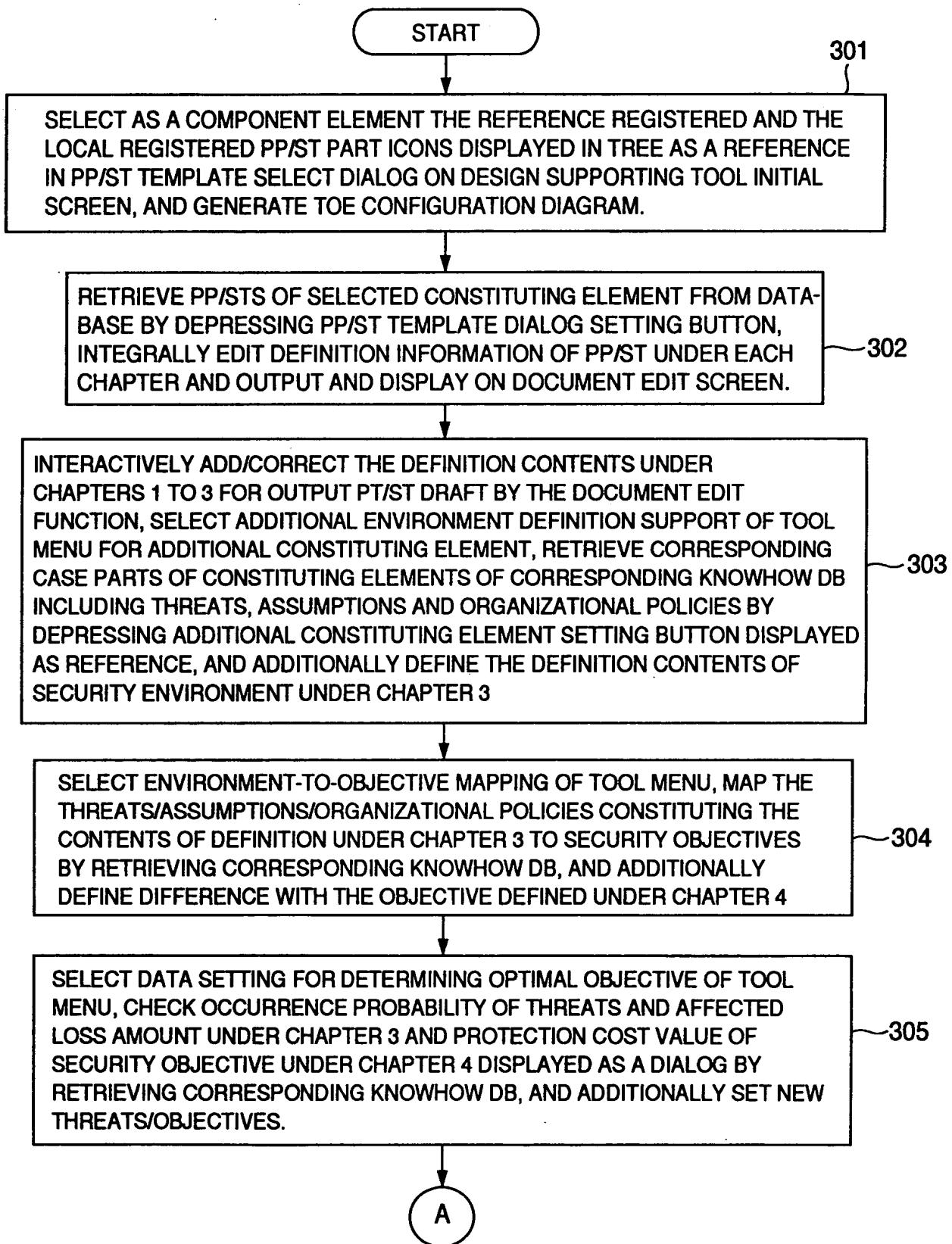


FIG.4

A

SELECT OBJECTIVE OPTIMIZATION CALCULATION FOR DETERMINATION OF OPTIMAL OBJECTIVE OF TOOL MENU, SET CONSTRAINTS AND OBJECTIVE FUNCTION DISPLAYED IN DIALOG, EXECUTE CALCULATION BY DEPRESSING EXECUTION BUTTON, AND AUTOMATICALLY CORRECT DEFINITION CONTENTS OF THREATS UNDER CHAPTER 3 AND OBJECTIVES UNDER CHAPTER 4 CORRESPONDING TO COMBINATION OF SECURITY OBJECTIVE PROVIDING OPTIMAL SOLUTION

306

SELECT OBJECTIVE-TO-CC REQUIREMENT MAPPING AND EAL LEVEL OF TOOL MENU, RETRIEVE CC/PKG STRUCTURED DB, EXPANDED CC/PKG STRUCTURED DB AND CORRESPONDING KNOWHOW DB, SPECIFY CC REQUIREMENTS CORRESPONDING TO OBJECTIVE DEFINED UNDER CHAPTER 4, AND AUTOMATICALLY CORRECT THE CONTENTS OF DEFINITION OF SECURITY REQUIREMENTS UNDER CHAPTER 5

307

PP GENERATED ?

308

YES

NO

SELECT CC REQUIREMENT-TO-IMPLEMENTATION SCHEME MAPPING OF TOOL MENU, RETRIEVE CORRESPONDING KNOWHOW DB, SPECIFY IMPLEMENTATION SCHEME CORRESPONDING TO CC REQUIREMENTS DEFINED UNDER CHAPTER 5, AND SET DEFINITION CONTENTS OF SYSTEM SUMMARY SPECIFICATION UNDER CHAPTER 6

309

SELECT RATIONALE MATRIX GENERATION/VERIFICATION OF TOOL MENU, AUTOMATICALLY GENERATE CORRESPONDING MATRIX TABLE FROM CORRESPONDENCE BETWEEN ENVIRONMENT, OBJECTIVES, CC REQUIREMENTS AND IMPLEMENTATION SCHEME UNDER CHAPTERS 3 TO 6 (OR TO CHAPTER 5 FOR PP GENERATION), AND GIVE MESSAGE IF VERIFICATION SHOWS THE PRESENCE OF INFORMATION LACKING CORRESPONDENCE

310

SELECT PP/ST SIMPLE EVALUATION OF TOOL MENU, RETRIEVE CC (CEM)/PKG STRUCTURED DB, DISPLAY PP/ST EVALUATION CHECK LIST FOR CEM IN DIALOG, AND CHECK INTERACTIVELY

311

SELECT STORAGE WITH NAME IN FILE MENU, SET NAME, AND REGISTER GENERATED PP/ST IN LOCAL PP/ST STRUCTURED DB

312

END

FIG. 5

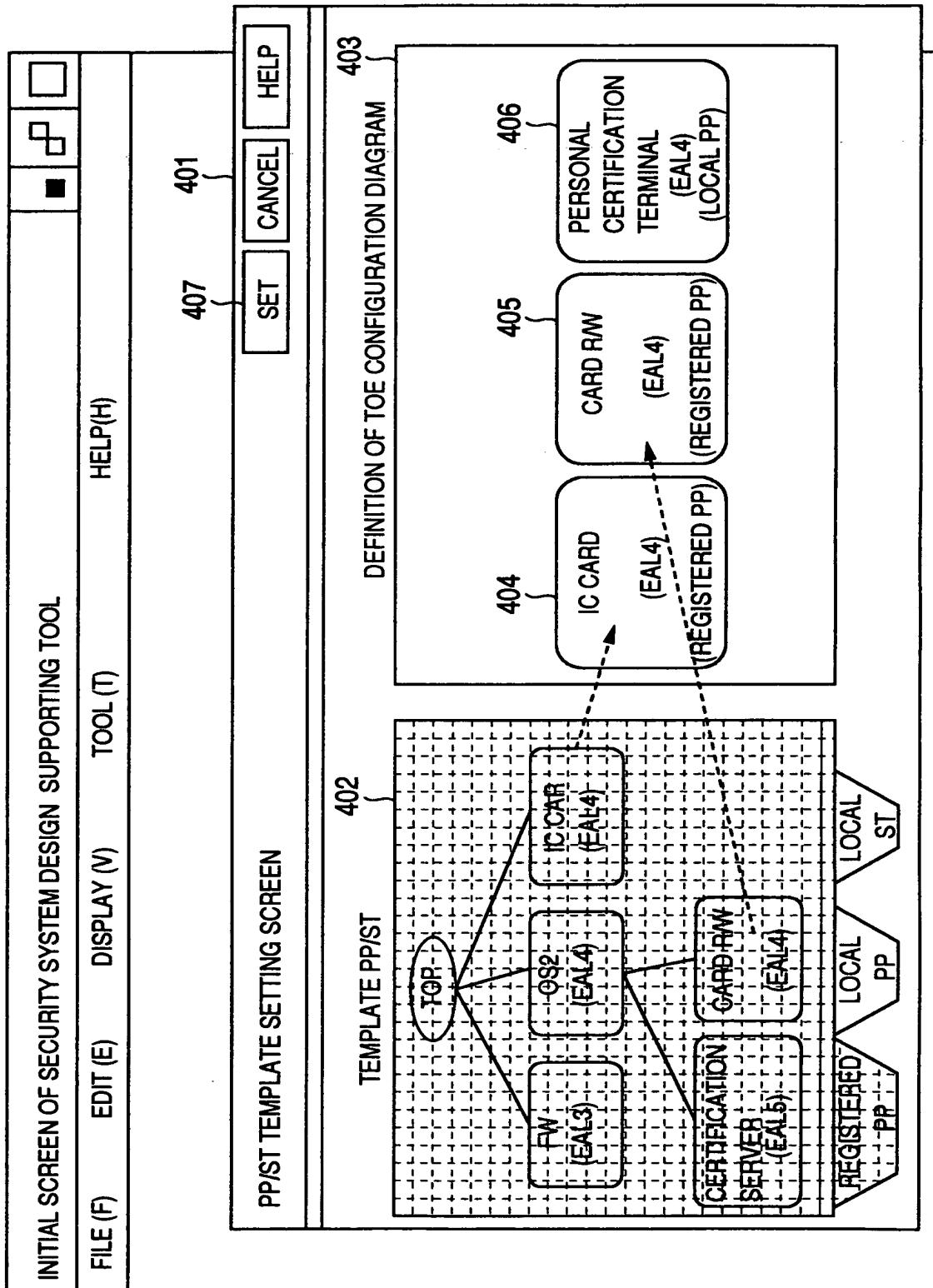


FIG.6

PP&ST DOCUMENT EDIT SCREEN OF SECURITY SYSTEM DESIGN SUPPORTING TOOL		501	502	503	504
FILE (F)	EDIT (E)	DISPLAY (M)	TOOL (T)	HELP (H)	
CHAPTER 1 INTRODUCTION					
ICC-PP: INTRODUCTION					
R&W-PP: INTRODUCTION					
TERMINAL-PP: INTRODUCTION					
CHAPTER 2 TOE OUTLINE					
ICC-PP: TOE OUTLINE					
R&W-PP: TOE OUTLINE					
TERMINAL-PP: TOE OUTLINE					
CHAPTER 3 SECURITY ENVIRONMENT					
3.1 ASSUMPTIONS					
ICC-PP: ASSUMPTIONS					
R&W-PP: ASSUMPTIONS					
TERMINAL-PP: ASSUMPTIONS					
3.2 THREATS					
CHAPTER 7 PP CLAIMS USED					
ICC-PP IDENTIFICATION					
R&W-PP IDENTIFICATION					
CHAPTER 8 RATIONALE					

FIG.7

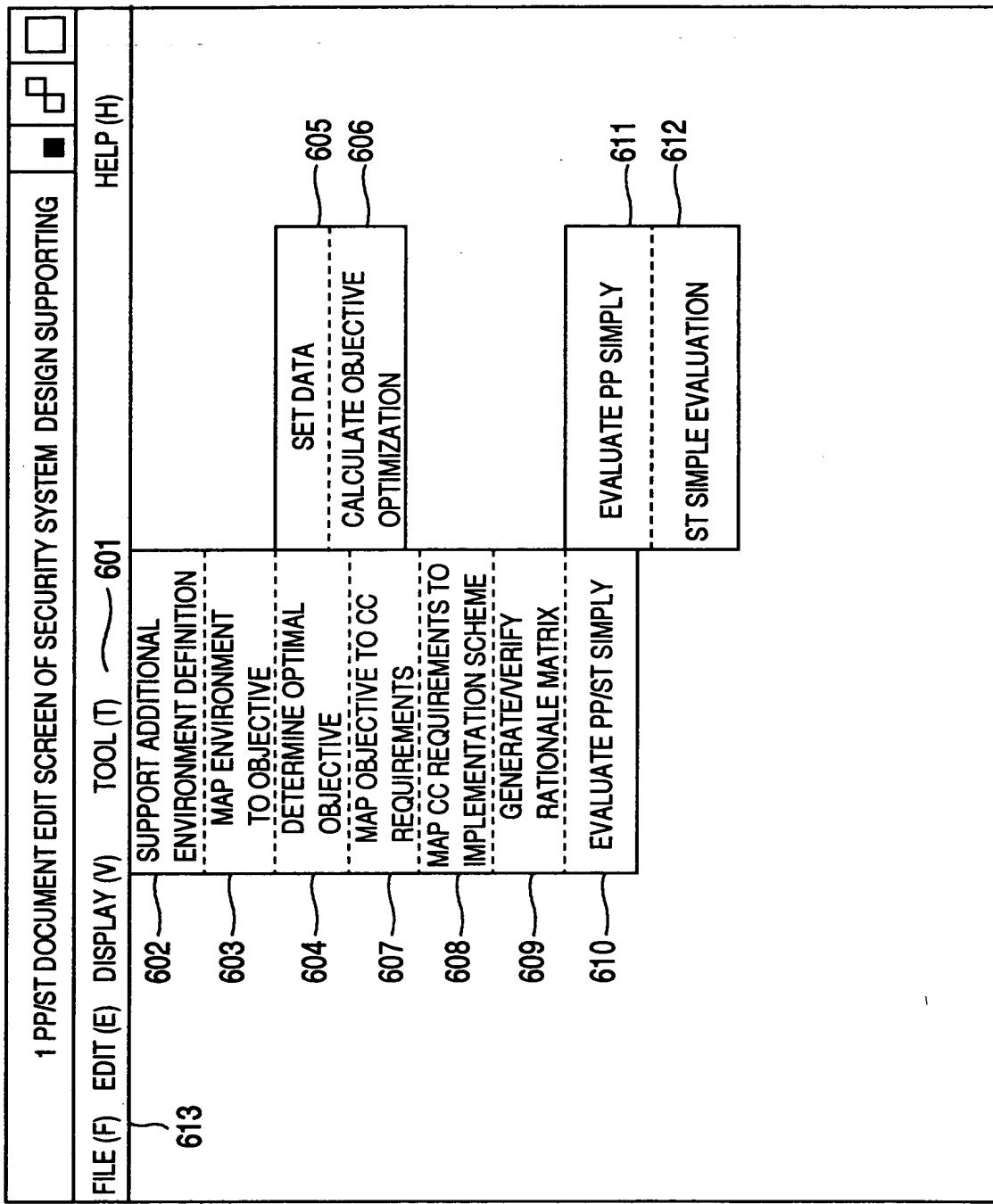


FIG.8

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COMPONENT ELEMENT/ENVIRONMENT CORRESPONDENCE TABLE			ENVIRONMENT/OBJECTIVE CORRESPONDENCE TABLE	
ELEMENTS	ASSUMPTIONS	THREATS	ORGANIZATIONAL POLICIES	ENVIRONMENTS
CompX	A-XXX	T-XXX	P-XXX	A-XXX
⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮

701 702 703

THREATS DATA TABLE		PROTECTION COST DATA TABLE	
THREATS	PROBABILITY OF OCCURRENCE	AFFECTED LOSS AMOUNT (YEN)	COUNTERMEASURES (OBJECTIVES)
T-XXX	0.004	1000.000	O-TXX
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮

704 705

OBJECTIVE/CC REQUIREMENT CORRESPONDENCE TABLE		CC REQUIREMENTS/IMPLEMENTATION SCHEME	
OBJECTIVES	CC FUNCTIONAL REQUIREMENTS	CC FUNCTIONAL REQUIREMENTS	IMPLEMENTATION SCHEME
O-TXX	FAU_GEN.1,FAU_STG.1	FAU_GEN.1	ImpX
⋮	⋮	⋮	⋮

706 706

FIG.9

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PP/ST DOCUMENT EDIT SCREEN OF SECURITY SYSTEM DESIGN SUPPORTING TOOL			
FILE (F)	EDIT (E)	DISPLAY (V)	TOOL (T) HELP (H)
801			
804			
DESIGNATION OF OBJECTIVE OPTIMIZATION			
CONDITION AND OBJECTIVE FUNCTION			
DESIGNATE EVALUATION FUNCTION: 801			
<input checked="" type="checkbox"/> COST MINIMIZATION FUNCTION			
<input type="checkbox"/> COST MINIMIZATION FUNCTION			
<input type="checkbox"/> PROTECTION RISK			
<input type="checkbox"/> MAXIMIZATION FUNCTION			
DESIGNATE CONSTRAINTS AND VALUE: 803			
<input checked="" type="radio"/> RISK ACCEPTANCE: ¥ 100.000			
<input type="radio"/> COST LIMIT VALUE: ¥			
<input type="radio"/> RISK-TO-COST RATIO:			

FIG.10

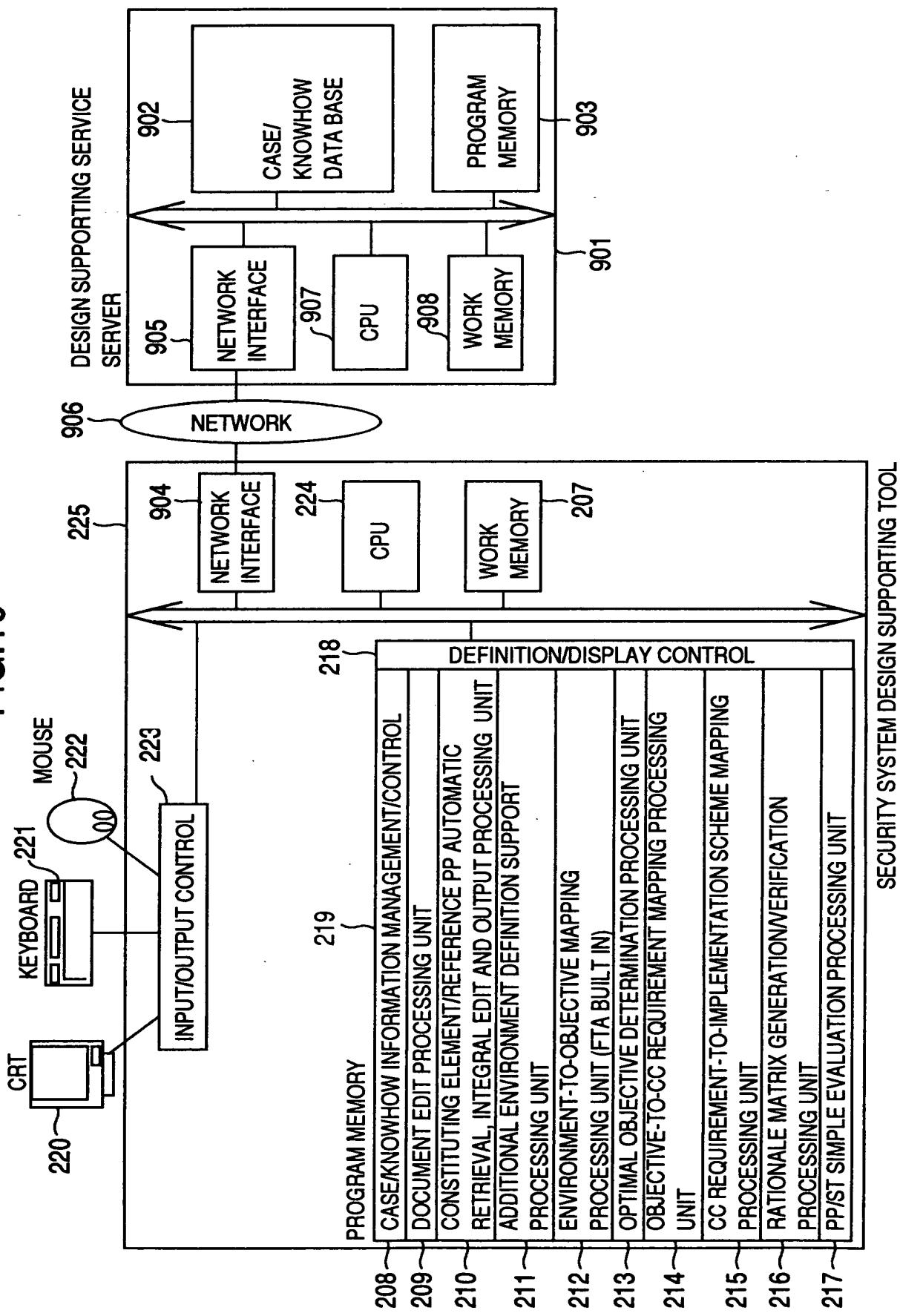


FIG.11

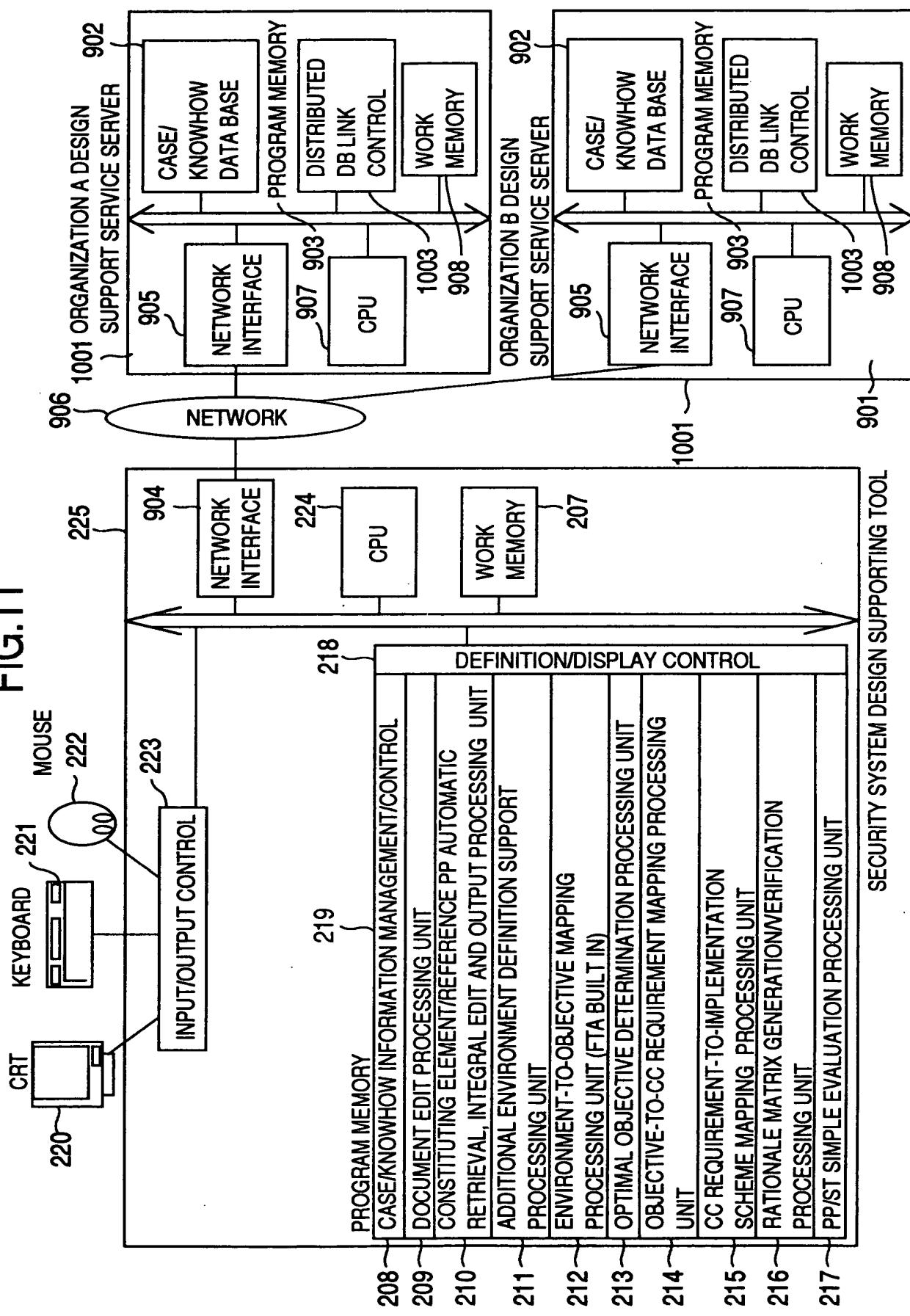


FIG.12

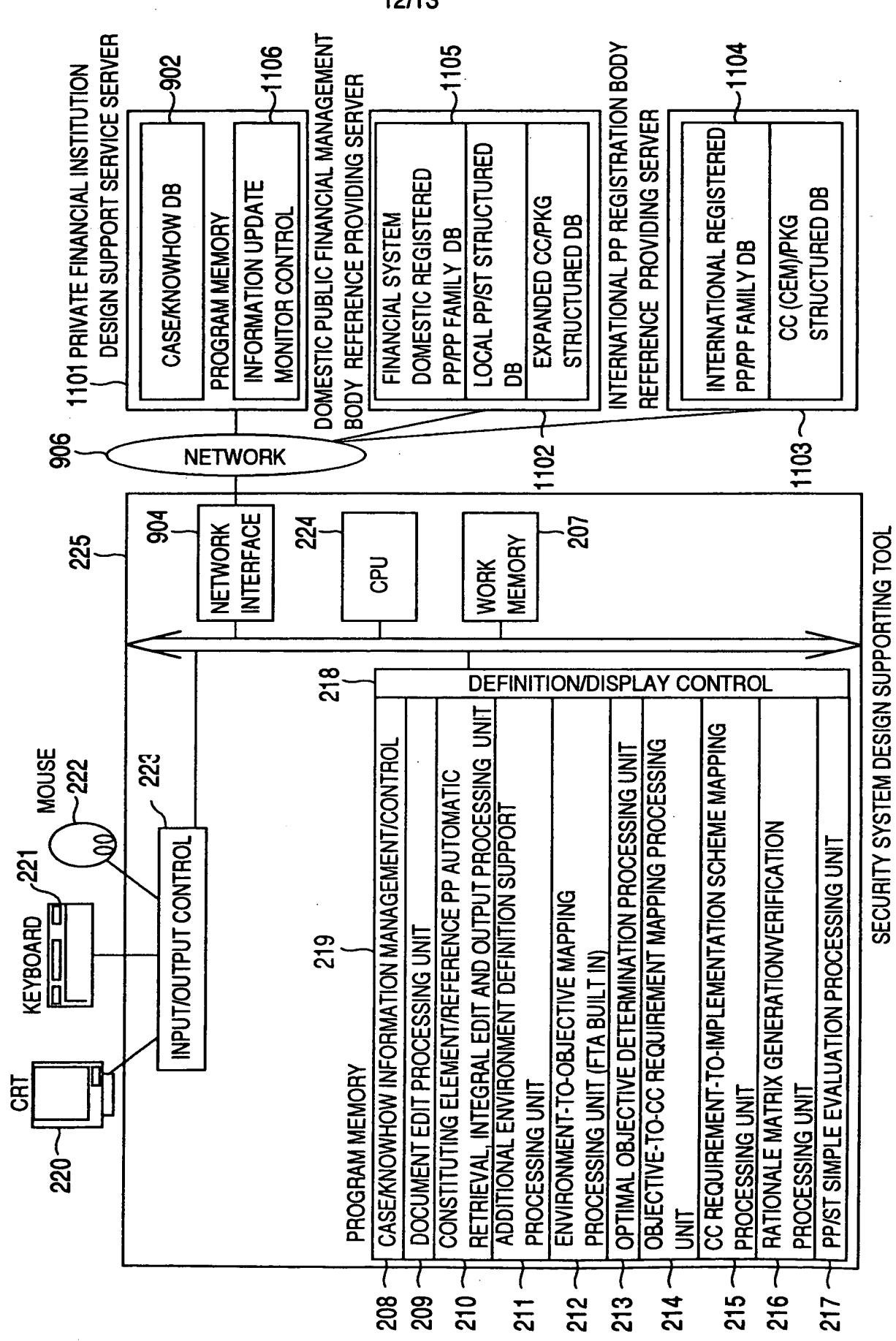
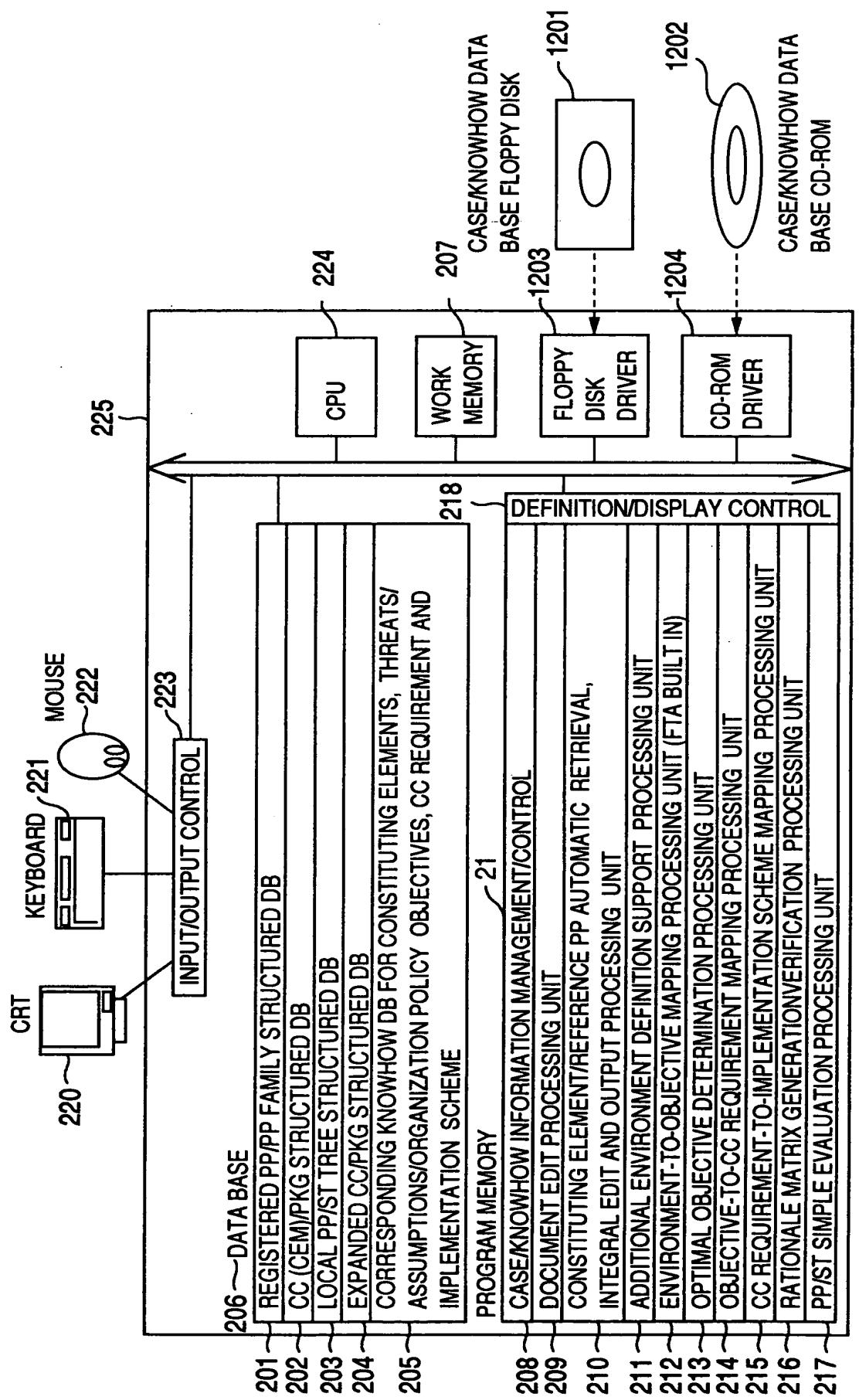


FIG.13

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SECURITY SYSTEM DESIGN SUPPORTING TOOL